Work Order ID 60155 Monday, June 28, 2010 10:54:30 AM							***				Page 1
Item ID: D4 Revision ID:	112-711-101			Accept				S	etup Sta		
tem Name: Re	placement Bubble Win	dow				1			Sto	p q	
Start Date: 6/2 Required Date: 7/2 Reference:		ty: 2.00 Qty: 2.00			Cust Ite Customo	1	PRE	LIMIN	IARY	ISSU	:
Approvals: P	rocess Plan:	me	Date: 10 -6	-2 &Tooling:		Date:		R	un Sta	rt	
)C:		Date:	•		Date:			Sto	p	
Sequence ID/ Work Center ID	Operation Descript		•	Set Up/ Run Hours	Tool II	 	# Plan Code	Accept · Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr	. []							.		-
D412-711-101	p reliminary	Alf	·				,	,			
100 	HAND FIN	NISHING THE	ERMOFORMING	0.00						FB	10/06/28
Thermoform		Memo		0.00				P 4			**/ (0
Thermoforming Machin	C	Set up Maci	iline as per folio FTA	077 and D711W program	·			•	;		
	HAND FI	NISHING THE	ERMOFORMING	0.00				at ,		i R	10/06/28
Thermoform Thermoforming Machine	e	Memo Cut Blanks	to 36" by 39"	0.00		1				<u>^</u>	1
120		٠.		0.00		; ;		· .		_	
Thermoform	THERMO	FORMING M	ACHINE	0.00					_ (X	Doll.	10/06/28
Thermoforming Machine	e		as per Dwg. D412-7 Dwg	11-101 using DT 9640 and I Rev	Folio FTA Folio Rev.			 	:		<i>f</i> (

Dart Aerospace Ltd

W/O:	-		WORK ORDER O	WORK ORDER CHANGES				
DATE	STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
i				,				,
								·
Part No):	PAR #:	Fault Category:	NCR: Yes	s No DQ	¥	Date: _	
	F	Resolution:	Disposition:	QA: N/C	Closed:		Date: _	

NCR:			WORK OR	DER NON-CONFORMANC	E (NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval QC Inspector
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	
							i	
							Alexander	-

NOTE: Date & initial all entries

Item ID: **Revision ID:** Item Name: **Start Date:** Required Date: 7/2/2010 Reference: Approvals: Sequence ID/ 130 **Quality Control** 140 OC Quality Control

Monday, June 28, 2010 10:54:30 AM D412-711-101

Accept



Setup Start

Run

Replacement Bubble Window

6/28/2010

Start Qty: 2.00 Req'd Qty: 2.00



Cust Item ID: Customer:

Process Plan: _____ Date:

Tooling:

SPC (Y/N):

Date:

Date:

Start

Stop

Stop

Work Center ID

Operation Description Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Oty

Reject Oty

Reject Number

Insp. Stamp

Memo

QC: Date:

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

1) Check Surface finish for undesired marks, voids, dimples etc. 22) Check depth of bubble to ensure conformity to drawing tolerances.

QC8- Inspect parts - second check

Memo Otyllor testing #2.00 winders

H I inspected ALSO.

ENGINEERING APPROVAL

150



Thermoforming Machine

HAND FINISHING THERMOFORMING

Memo

1) Trim off excess flange material blemishes

0.00

0.00

2) Buff out any light scratches or 3) Etch part number and batch number

Dart Ae	erospace	Ltd
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W/O: 60	155	WORK ORDER CHANGES					y
DATE	STEP	PROCEDURE CHANGE	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
rdeul 78	150	Allow extra 3/4" material on tange area for testing purpose only, parts Now tvimmed to pew.A/	19h	10/0430,	2	(0.d6.28	100618

Part No. 12-711-101 PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:	Disposition:	QA: N/C Closed:	Date:

	· W	ORK ORDE	R NON-CONFORMANC	E (NCR)			
	Description of NC	T	Corrective Action Section B		Verification	Approval	Approval
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto
		. , .					
	•	-					
							7550
	STEP	STEP Description of NC Section A	STEP Description of NC Section A Initial Chief Eng	STEP Description of NC Section A Initial Chief Eng Corrective Action Section B Action Description Chief Eng	STEP Description of NC Section A Initial Chief Eng Corrective Action Section B Initial Chief Eng Chief	STEP Description of NC Section A Initial Chief Eng Chief	STEP Description of NC Section A Initial Chief Eng Chi

NOTE: Date & initial all entries

Work Order ID 60155

180

Packaging

Packaging



Page 3

Insp.

Stamp

Monday, June 28, 2010 10:54:30 AM Item ID: D412-711-101 Accept Setup Start Revision ID: Stop Replacement Bubble Window Item Name: Start Qty: 2.00 **Start Date:** 6/28/2010 Cust Item ID: Required Date: 7/2/2010 Req'd Qty: 2.00 Customer: Reference: Run Start Approvals: Process Plan: ____ Date: ____ Tooling: Date: Stop QC: Date: _____ SPC (Y/N): Date: Sequence ID/ Operation Tool # Plan Set Up/ Tool ID Accept Reject Reject Work Center ID Description Number **Run Hours** Code Qty Qty | 160 QC2- Inspect parts off machine FAI/FAIB 0.00 0.00 Memo Quality Control 170 QC5- Inspect part completeness to step on W/O 0.00 **ENGINEERING APPROVAL** QC 0.00 Memo Quality Control 1) VIsually inspect for clarity, and proper formation.

0.00

0.00

Identify as per dwg & Stock Location: 19/6

Memo

(10/1)27 D

Dart Ae	rospace	Ltd							£ 51
W/O:			V	ORK ORDER CHANG	GES			· · · · · · · · · · · · · · · · · · ·	>
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Ca	tegory:	NCR: Ye	s No DQA	 	_ Date: _	
	Re	esolution:	Disposition: (Closed:	Date:		
NCR:		V	VORK OR	DER NON-CONFORM	IANCE (NO	CR)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Secondary Action Description Chief Eng	ction B			Approval Chief Eng	Approval QC Inspector
			·	-					
			-						
					,				
	1				ļ		i .		

NOTE: Date & initial all entries



Page 4

Monday, June 28, 2010 10:54:30 AM Item ID: Accept D412-711-101 Setup Start **Revision ID:** Stop Replacement Bubble Window Item Name: Start Qty: 2.00 **Start Date:** 6/28/2010 Cust Item ID: Required Date: 7/2/2010 **Req'd Qty: 2.00** Customer: Reference: Run Start Process Plan: Approvals: Date: Tooling: Date: Stop QC: Date: ___ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject **Work Center ID** Description **Run Hours** Qty Number Stamp Code Qty | QC21- Final Inspection - Work Order Release 190 0.00 0.00 Memo Quality Control

POSITIVE RECALL

EFFECTIVE 10 de 28 AUTH

RELEASED

DATE 104-26 02+42 to Kev A

Insp.

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					,
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
					ļ		
	<u>i</u>			<u> </u>		1	

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B		Verificat	ion	Approval	Approval QC Inspector
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	
					İ				
		•							

NOTE: Date & initial all entries

Picklist Print

Monday, June 28, 2010 10:54:29 AM

Work Order ID: 60155

Parent Item: D412-711-101

Parent Item Name: Replacement Bubble Window

Start Date: 6/28/2010

Qty per Kit Total

16

Qty

32

Start Qty: 2.00

Required Date: 7/2/2010

Date

Issued

Page 1

Status

Required Qty: 2.00

Comments:

IPP Rev:A New Issue 06-02-01

Manufacture in-house 10/06/28 DL

IPP Rev. B.

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch		Primary Location	Last Location
		— ·			
MACRLICS.236		Purchased	No		

Plexiglass G .236"

Location Loc Qty

65

Route

Seq ID

Unit of

sf

Measure

Loc Code

Qty on

65.0000

Hand

Qty

Issued

113571

therm

JLM

Dart	Aeros	pace	Ltd
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W/O:				WORK ORDER CHANGES					,
DATE	STEP		PRO	CEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								ţ	
Part No	:		PAR #:	Fault Category:	NCR: Y	es No DQ	\ \.	Date: _	
	R	esolution:		Disposition:	QA: N/0	Closed:		Date: _	

NCR:			WORK ORDI	ER NON-CONFORMAN	CE (NCR)			
		Description of NO		Corrective Action Section B			n Approval	Approval
DATE STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C		QC Inspector	
·								
				•				

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	60155
Description: 4/2 Replacement Bubble Window	Part Number:	D412-711-18.1
Inspection Dwg: #4/2-71/-10 Rev: PRELLIM		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

THERMOFORMING SECTION

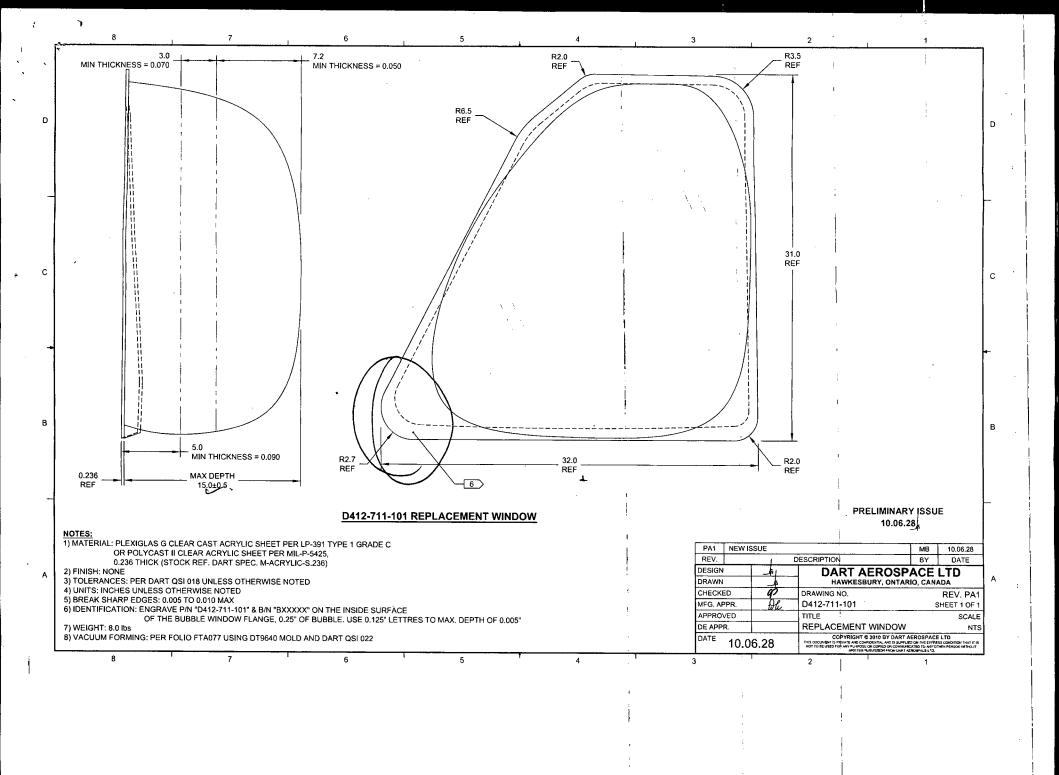
Description	Accept	Reject	Method of Inspection	Comments
Inside Radii less than"	V			
Shape Definition	V			
Texture Retention	V			
Material imperfections such as bumps, cracks, voids, scratching	\sim			
Measured by:]		Date:	10/06/28

TRIMMING SECTION

Rof Rof Mino Mino	Actual Dimension 32.5 33.375 , 096	Accept	Reject	Method of Inspection	Comments
Rof. Min	33.375	V	•	7	
MIN	, 096			4	- 00
					500
Min		V			DW. Sell
	. 090	/			`
Min	076	/)	FAI to
2,5	15.250	<u>ب</u>			1 april .
					release in
					1009
		-	V-		
BB				Date:	10/06/28
			· [Date:	10.06.28
			-· - ·{	Date:	-
]	BB /				Date: Date:

Rev	Date	Change	Revised by	Approved
В	10.04.14	Added preliminary approval	KJ	





SABIC annovative Plastics **سابک** عاداه

SABIC Polymershapes

1250 OLD INNES RD. 519 OTTAWA, ONT. K1B 5L3 TEL: 613 745 7043 FAX: 613 745 8163

CERTIFICATE OF COMPLIANCE

SOLD TO: DART AEROSPACE

DATE:1/5/2010

YOUR PURCHASE ORDER: 11025

OUR SHIPPER NO: 089540

LINE ITEM #:1

QUANTITY: 5 SHEETS

DESCRIPTION: .236 X 60 X 96 PLEXIGLAS GM

THESE PARTS WERE MANUFACTURED IN ACCORDANCE WITH PLEXIGLASS

D4802 FORMALLY LP 391

0/01/07

THIS IS TO CERTIFY THAT THE MATERIAL FINISHES AND FUNCTIONAL REQUIREMENTS OF THE ABOVE LISTED PARTS ARE IN ACCORDANCE WITH THE REFERENCE PROCUREMENT SPECIFICATIONS, CONTROL DRAWINGS OR PARTS DESIGNATION AND LATEST REVISIONS AS REFERENCED ON THE SUBJECT PURCHASE ORDER.

AUTHORIZED REPRESENTATIVE SIGNATURE

for Paldwell

JON CALDWELL BRANCH MANAGER

Receiving Report Batch No: Date: Dart P/O: Supplier: Release Note Attached: Yes Yes Packing Slip: Yes Waybill Attached: Yes Invoice: Shipment Complete: Receipt: QC6 Inspection _ N/A Work Order toloilo x Discrepancies Quantity Quantity Quantity Quantity Part Comments Description Short Received Returned Ordered Number Initials of receiver (if shipment OK) Level 12

Location

Production/Admin:

Date

Received/Costing

Initial

H:\FORMS\Purchasing\approved purch\RECREPORT Rev D

DART AEROS	PACE LTD	Work Order:	60/85
Description:	412 REPLACEMENT BLEBBLE WINDOW	Part Number:	0412-711-101
In an anti-			
Inspection Dwg:	4/12-7/11-101 Rev: Y		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

THERMOFORMING SECTION

Description	Accept	Reject	Method of Inspection	Comments
Inside Radii less than"	1-			
Shape Definition	_			
Texture Retention	_			
Material imperfections such as bumps, cracks, voids, scratching	_			
				·
	J	L	L	,

				- 1	,		
Measured by:	<u>走</u>	>	Date:	10/	06/	28	
							_

TRIMMING SECTION

Drawing Dimension	Tolerance 7	Actual Dimension	Accept	Reject	Method of Inspection	Comments
31	REE.	31.125	V			
32.	REF	32.5	レ			
15	+/5	15.250	V			
, ৩৭৩	a)H	O0),	レ			
. 070	- Mis -	593	$-\overline{\nu}$			
. 050	His	.074	<i>\</i>			
	#2					
31	4.7	31.065				
32		32.5				
15		15,375				
. ୦୧୦		.588 .588				
078 080		,088 '070				

Measured by:

Date: 10/07/26

Audited by:

Preliminary Approval:

Date: 10/07/26

Rev	Date	Change	Revised by	Approved
В	10.04.14	Added preliminary approval	KJ	

